WOCO

LAMINEX

DOORS

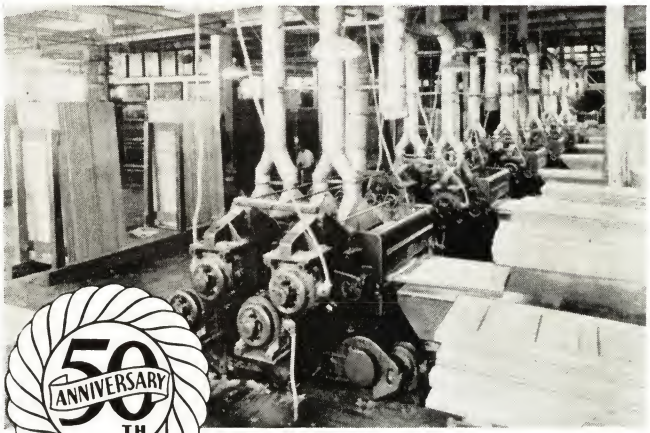
The Country's Most Complete Line of Doors

OVER 300 DESIGNS

CATALOG 39

WHEELER OSGOOD SALES CORPORATION

THERE IS A WHEELER OSGOOD WOCO OR LAMINEX DOOR FOR *Every Requirement*



The durable construction and excellent finish of LAMINEX and WOCO Doors are made possible by advanced design and the use of modern equipment; part of which is the largest battery of 8-drum, motor-driven sanders in the world, shown above.

50TH ANNIVERSARY

Design, Equipment, Manufacturing Capacity.

Fifty years of designing to meet all door requirements — manufacturing to assure maximum economy and satisfaction — and a production record of **over 27 million doors** are behind the complete line of Wheeler Osgood products.

As the factory is located "next door" to the great Douglas Fir forests, carefully selected virgin growth timber is readily available for scientific kiln drying and further processing.

To complete the line of products now offered, Wheeler Osgood utilizes the resources of its Philippine connections, thus assuring an adequate supply of Philippine hardwoods.

The use of adequate, modern equipment assures high quality; it also permits the production of doors in the quantities which provide exceptional economies to the builder.

TWO TYPES OF WHEELER OSGOOD DOORS. Wheeler Osgood doors all carry one of two trade-marks—either WOCO or LAMINEX. All Wheeler Osgood doors have 10 points of superiority, yet they are manufactured under two separate construction principles — each being recognized as best suited for its individual requirement.

WOCO TYPE. WOCO Doors are built **with solid stiles and rails.** They conform to rigid standards of workmanship and materials. All members of the doors are cemented together with water-resistant cement, and the use of more and larger dowels in WOCO Doors gives them greatly increased strength. Panels are 3-ply Laminex. WOCO Doors are available in a range of designs wide enough to meet virtually any requirement for either interior or exterior use.

LAMINEX TYPE. LAMINEX Doors are built by our special process of construction—one embodying the principle of lamination. The grain of the adjoining sections is so "crossed" that it equalizes all expansion and contraction, and holds the whole in check, for wood cannot shrink in length and the LAMINEX cement is stronger than the wood. LAMINEX Doors are furnished in both vertical and flat grain stiles and rails.

GUARANTEED DOORS. Both WOCO and LAMINEX are guaranteed doors. Be sure that the WOCO and LAMINEX guarantee label is on each door when it is delivered. The careful selection of raw materials and craftsmanship construction of genuine WOCO and LAMINEX Doors are further assurance of satisfaction and years of trouble-free service.

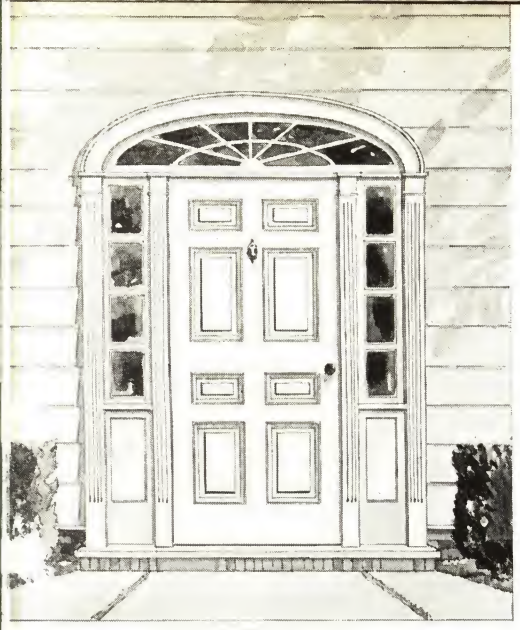
CO-OPERATION WITH ARCHITECTS. To architects, engineers, contractors, and owners, Wheeler Osgood Sales Corporation freely offers its services in planning efficient application and use of any of their products. Samples and further details are available on request.

27 million doors offer testimony to the satisfactory service provided by these Wheeler Osgood products. The preference for WOCO and LAMINEX Doors has been maintained for 50 years

because of their 10 points of superiority: (1) Absolutely square —no sagging. (2) No loose or torn grain. (3) Perfect, uniform distribution in dowel holes and corner joints. (4) Smooth, clean mouldings around panels—no ragged edges. (5) No warping or swelling in Laminex construction; and maximum resistance in Woco solid designs. (6) No open joints. (7) Heavy dowels to give 30% more glue contact area. (8) Smooth, perfectly sanded finish. (9) Carefully selected woods—scientifically dried—easy to mortise and gain. (10) Trade-marked, guaranteed and backed by more than 50 years' experience.

WHEELER OSGOOD SALES CORPORATION

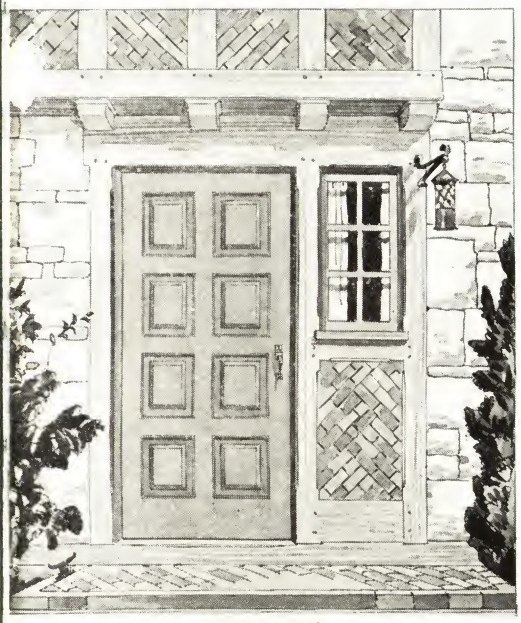
FACTORY: Tacoma, Washington • GENERAL SALES OFFICES: 122 S. Michigan Ave., Chicago, Ill.



DESIGN 88 COLONIAL †

DESIGN 1110†

DESIGN 66†



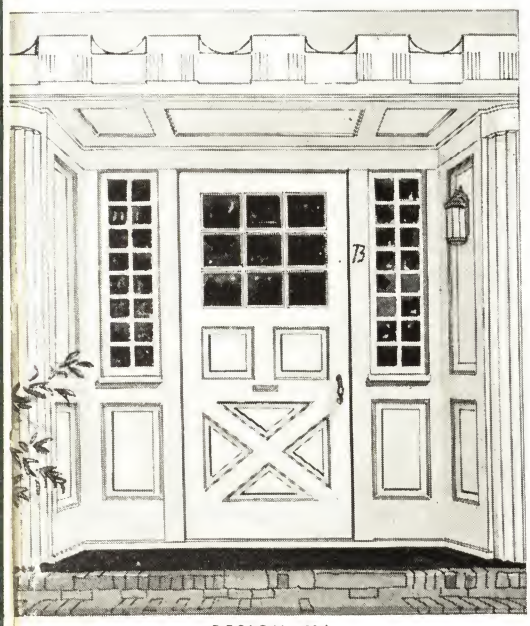
DESIGN 1030†

TYPICAL WHEELER OSGOOD

Entrance Doors

The wide range of designs in the complete Wheeler Osgood line makes it possible to select architecturally correct doors, which meet individual preference requirements—doors which will fit in perfectly with every period and style of architecture or entrance treatment. A number of the principal designs of Wheeler Osgood entrance and slab doors are illustrated on pages 4 and 5 of this catalog. Construction details and layouts are given on page 6. Additional information on entrance doors will be furnished on request.

DESIGN 605†



DESIGN 609†

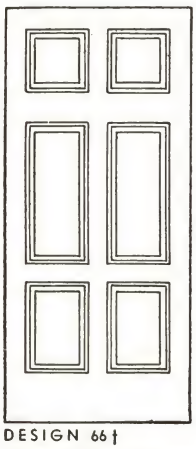
DESIGN 507§

DESIGN 607†

SEE PAGE 6 FOR LAYOUTS

KEY: *WOCO CONSTRUCTION
§ LAMINEX CONSTRUCTION
† WOCO OR LAMINEX CONSTRUCTION

48 Special Designs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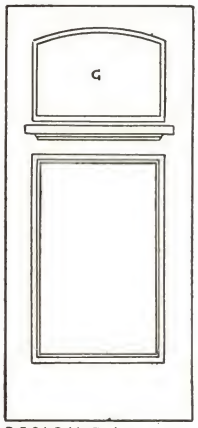
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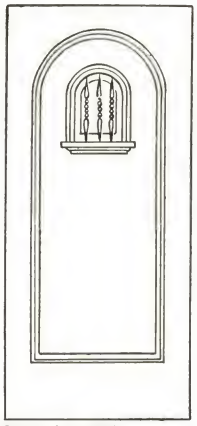
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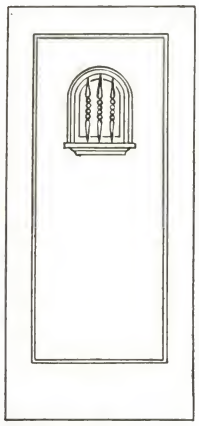
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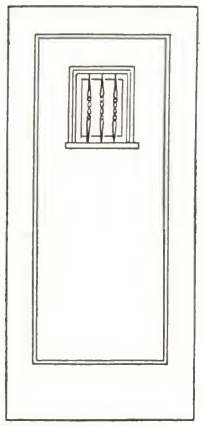
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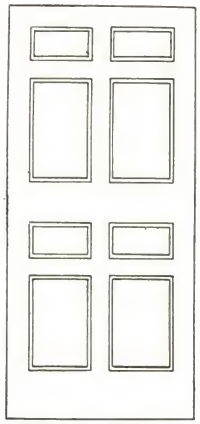
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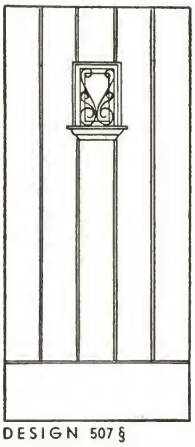
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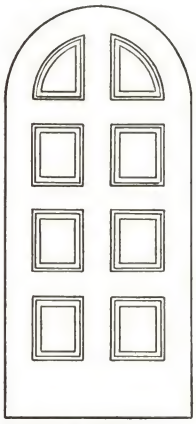
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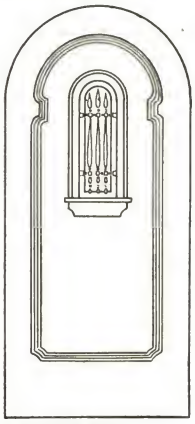
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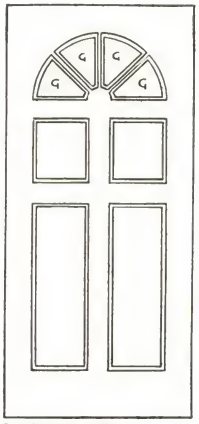
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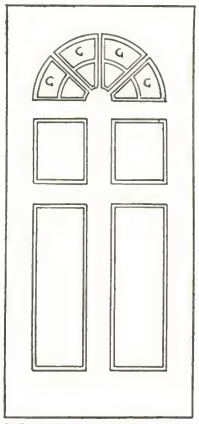
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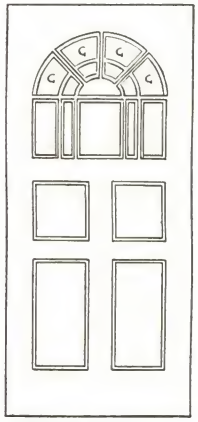
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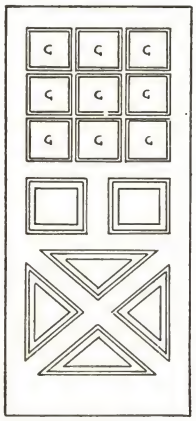
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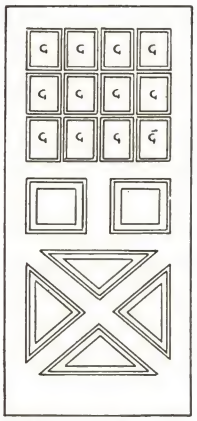
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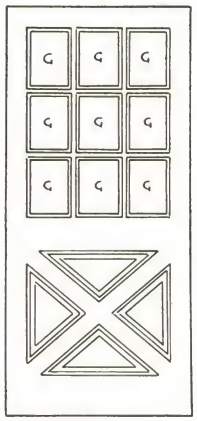
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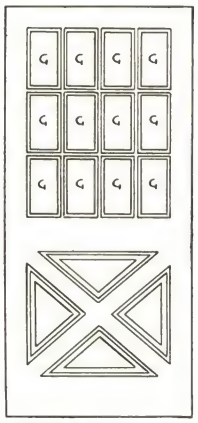
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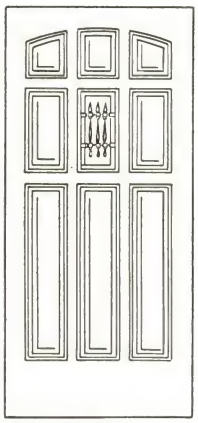
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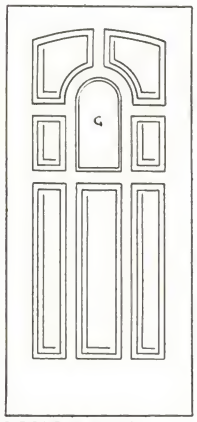
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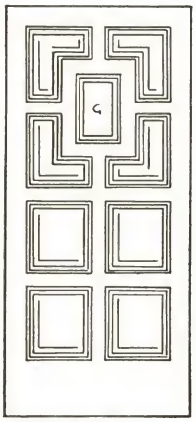
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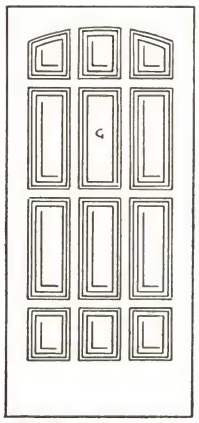
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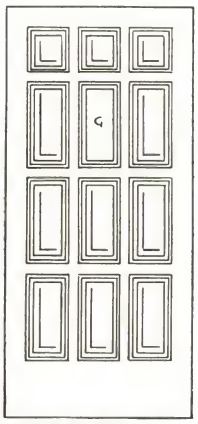
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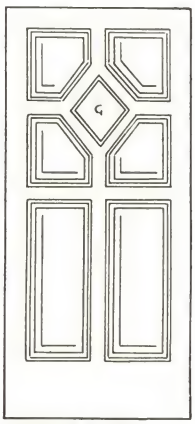
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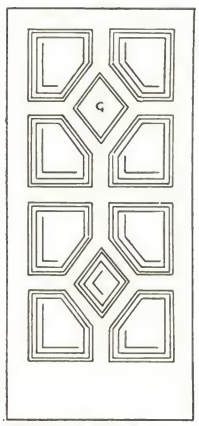
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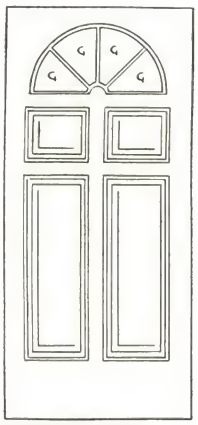
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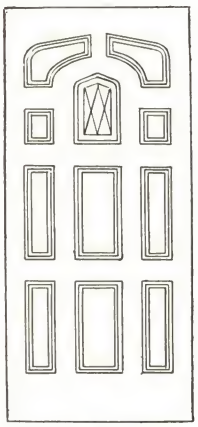
SEE PAGE 6 FOR LAYOUTS

Wheeler Osgood Entrance Doors

KEY: † WOCO OR LAMINEX CONSTRUCTION
§ LAMINEX CONSTRUCTION
* WOCO CONSTRUCTION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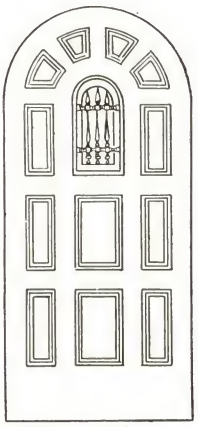
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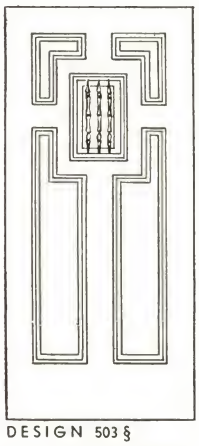
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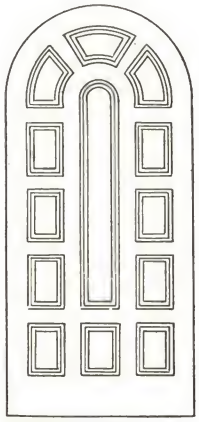
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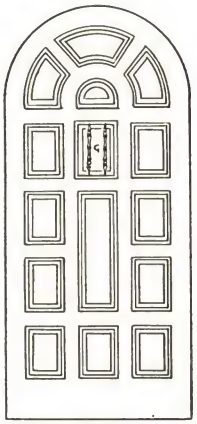
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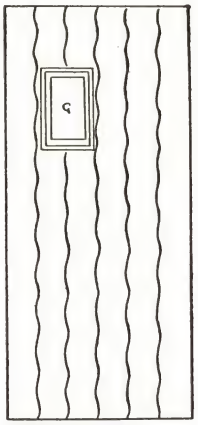
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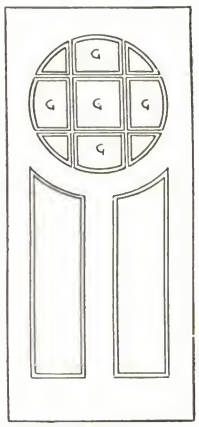
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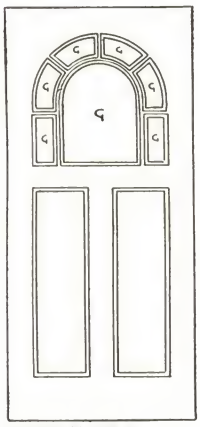
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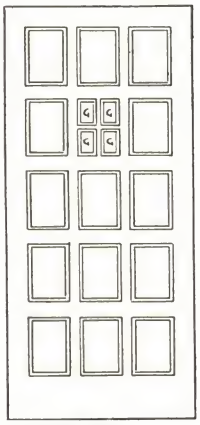
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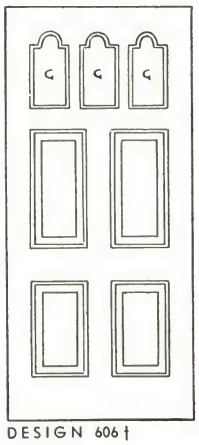
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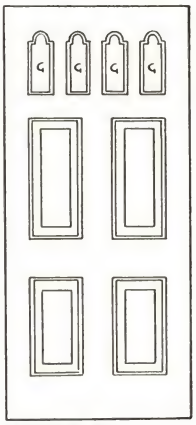
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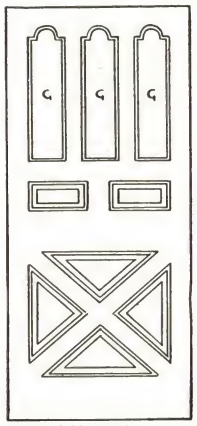
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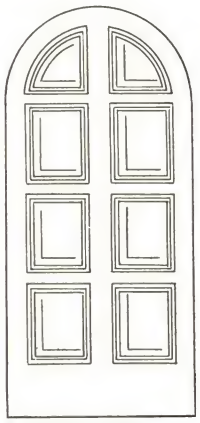
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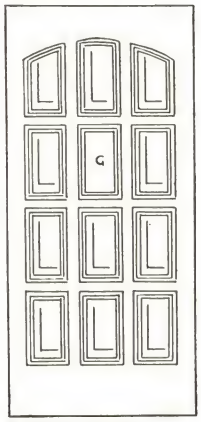
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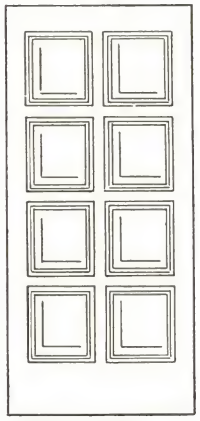
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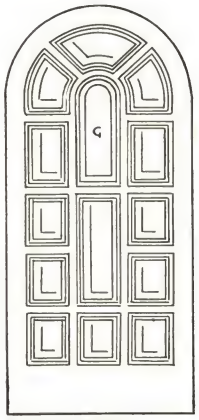
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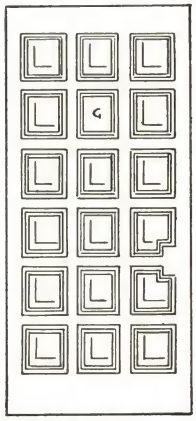
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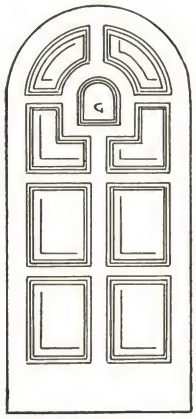
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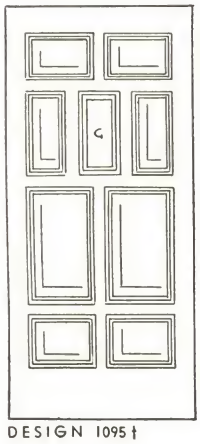
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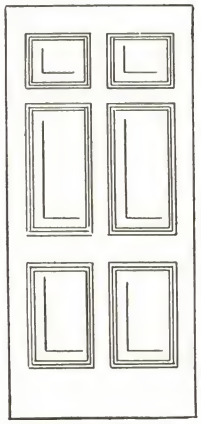
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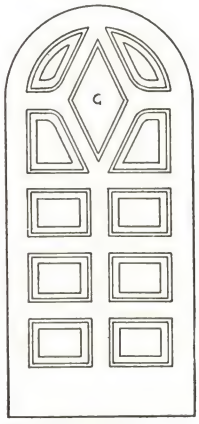
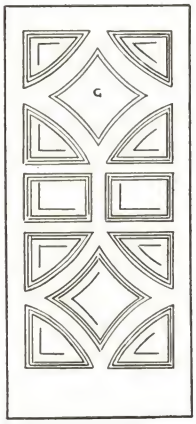

DESIGN 1110 †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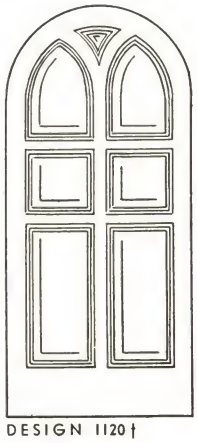
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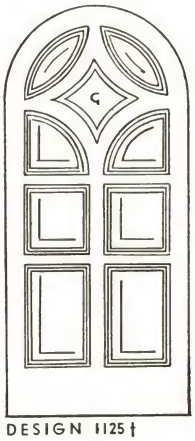

DESIGN 1125 †

SEE PAGE 6 FOR LAYOUTS

Layouts and Construction Features WHEELER OSGOOD ENTRANCE DOORS IN DOUGLAS FIR AND PHILIPPINE MAHOGANY

LAYOUTS ARE LISTED IN SEQUENCE TO CORRESPOND WITH ILLUSTRATIONS ON PAGES 4 AND 5

Design No.	66	70	73	74	75	88 Col.	501	502	503	504	505	506	507	508	509	600
Stiles	4 9/16	5 3/8	5 3/8	5 3/8	5 3/8	5 3/8	Slab Doors—Mouldings Planted On	Slab Doors—Mouldings Planted On	Slab Doors—Mouldings Planted On	Slab Doors—Mouldings Planted On	Slab Doors—Mouldings Planted On	Slab Doors—Mouldings Planted On	Slab Doors—Mouldings Planted On	Slab Doors—Mouldings Planted On	Slab Doors—Mouldings Planted On	5 3/8
Top Rail	4 9/16	5 3/8	5 3/8	5 3/8	5 3/8	5 3/8										5 3/8
Intermediate Rails	4 1/2	.....	.....	.....	.....	5 3/8										4 1/2
Lock Rail	8	8	.....	.....	.....	6 3/8										5 3/8
Mullion	4 1/2	.....	.....	.....	.....	4 1/2										4 1/2
Bars Between Glass	.....	.....	.....	.....	.....	.....										1/2
Bottom Rail	9 3/8	11 3/8	11 3/8	11 3/8	11 3/8	9 3/8										9 3/8
Panels	F or R*	Flat	Flat	Flat	Flat	F or R*										F or R*
Sticking**	Std.**	Std.**	Std.**	Std.**	Std.**	Std.**										Std.**

Design No.	601	602	603	604	605	606	607	608	609	610	612	613	1000	1005	1010	1025
Stiles	5 3/8	5 3/8	5 3/8	5 3/8	4 9/16	5 3/8	5 3/8	4 9/16	4 9/16	4 9/16	5 3/8	5 3/8	4 15/16	4 15/16	4 15/16	4 15/16
Top Rail	5 3/8	5 3/8	5 3/8	5 3/8	4 9/16	6 3/8	5 3/4	6 3/8	4 9/16	4 9/16	5 3/8	5 3/8	4 3/16 8 3/8	4 3/16 8 3/8	4 3/16 15 7/8	4 3/16 8 3/8
Intermediate Rails	4 1/2	4 1/2	.....	.....	2 3/4	5 3/8	5 3/8	4 1/2	4 1/2	4 1/2	.....	.....	.....	3 1/2	4 1/2	3 1/2
Lock Rail	5 3/8	5 3/8	5 3/8	5 3/8	.....	8	9 3/8	9 3/8	4 1/2	4 1/2	7 1/4	7 1/4	3 1/2	3 1/2	4 1/2	3 1/2
Cross Munts	.....	.....	.....	.....	.....	.....	.....	4 1/2	4 1/2	4 1/2	4 3/4	4 3/4	.....	.....	.....	.....
Mullion	4 1/2	4 1/2	4 1/2	4 1/2	2 3/4	5 3/8	5 3/8	4 1/2"	4 1/2"	4 1/2"	.....	.....	3 1/2	3 1/2	4 1/2	3 1/2
Bars Between Glass	1/2	1/2	1/2	1"	1/2	2"	1 3/8	2"	1/2"	1/2"	1/2	1/2	.....	.....	.....	.....
Bottom Rail	9 3/8	9 3/8	9 3/8	9 3/8	9 3/8	9 3/8	9 3/8	8 3/4	8 3/4	8 3/4	8 3/4	8 3/4	10 3/4	10 3/4	10 3/4	10 3/4
Panels	F or R*	F or R*	F or R*	F or R*	F or R*	3/4"	3/4"	1 1/8"	1 3/4	1 3/4"	1 1/8	1 1/8	F or R*	F or R*	F or R*	F or R*
Sticking**	Std.**	Std.**	Std.**	Std.**	Std.**	Std.**	B&C	B&C	B&C	B&C	B&C	B&C	3/4" Sunk Ogee	3/4" Sunk Ogee	3/4" Sunk Ogee	3/4" Sunk Ogee

Design No.	1030	1040	1045	1050	1055	1060	1065	1080	1085	1090	1095	1105	1110	1115	1120	1125
Stiles	4 15/16	4 15/16	4 15/16	4 15/16	4 15/16	4 15/16	4 15/16	4 15/16	4 15/16	4 15/16	4 15/16	4 15/16	4 15/16	4 15/16	4 15/16	4 15/16
Top Rail	4 15/16	4 3/16 15 7/8	4 15/16	4 3/16 15 7/8	4 15/16	4 15/16	4 15/16	4 15/16	4 15/16	5 1/2 15 7/8	4 15/16	4 15/16	4 3/16 15 7/8	4 15/16	4 3/16 15 7/8	4 3/16 15 7/8
Intermediate Rails	4 1/2	3 1/2	3 1/2	4 1/2	4 1/2	3 1/2	3 1/2	.....	4 1/2	5 3/4	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2
Lock Rail	4 1/2	3 1/2	3 1/2	.....	4 1/2	3 1/2	.....	6	6	4 1/2	4 1/2	8	4 1/2	4 1/2	4 1/2	4 1/2
Mullion	4 1/2	3 1/2	3 1/2	4 1/2	4 1/2	3 1/2	3 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	3 1/2	4 1/2
Bottom Rail	10 3/4	10 3/4	10 3/4	10 3/4	10 3/4	10 3/4	10 3/4	10 3/4	10 3/4	10 3/4	10 3/4	10 3/4	10 3/4	10 3/4	10 3/4	10 3/4
Panels	F or R*	F or R*	F or R*	F or R*	F or R*	F or R*	F or R*	F or R*	F or R*	F or R*	F or R*	F or R*	F or R*	F or R*	F or R*	F or R*
Sticking**	3/4" Sunk Ogee	3/4" Sunk Ogee	3/4" Sunk Ogee	3/4" Sunk Ogee	3/4" Sunk Ogee	3/4" Sunk Ogee	3/4" Sunk Ogee	3/4" Sunk Ogee	3/4" Sunk Ogee	3/4" Sunk Ogee	3/4" Sunk Ogee	3/4" Sunk Ogee	3/4" Sunk Ogee	3/4" Sunk Ogee	3/4" Sunk Ogee	3/4" Sunk Ogee

*F or R indicates Flat or Raised Panels. ** Std. will be considered as Bead and Cove Sticking unless Ovolo, Sunk Ogee or Square Sticking is specified. Measurements shown in the layouts are overall and include sticking.

WOCO AND LAMINEX ENGINEERED DOORS

Designed scientifically as well as being architecturally correct, Laminex and Woco Doors are built to give long, trouble-free service. Careful selection of materials and precision controlled kiln drying assure uniform moisture content and maximum protection against warping. Wheeler Osgood doors as tested by Professor Bror L. Grondal, M.S.F. School of Forestry, University of Washington, Seattle, prove their extreme resistance to the usual tendencies to shrink, swell, warp or come apart.

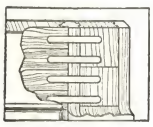
Typical Cross-Section Through the Stile or Rail of a Laminex Door.

Note the solidity of "built-up" core construction.

Typical Cross-Section Through the Stile or Rail of a Woco Door.

PANEL CONSTRUCTION OF LAMINEX AND WOCO FIR DOORS

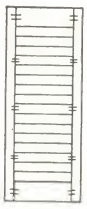
Clear Flat Grain 3-ply Laminated panels with grain crossed. Panels are welded together with Laminex water-resistant cement, forming a bond stronger than the wood itself.



DOWEL CONSTRUCTION IN ALL WHEELER OSGOOD DOORS

Four wooden dowels are used in the construction of bottom rail joints and two in top rail joints. All dowels are 5/8 in. in diameter and 5 in. long. They give over 50% greater strength and 30% more glue contact area than doors with half-inch dowels.

CONSTRUCTION OF EASTWOOD AND LOS ANGELES DOORS



Core consists of two stiles, wide top, bottom and cross rails jointed together, making a flush, solid, built-up core. Any type of light may be cut in.

All Eastwood doors are 3-ply construction, all Los Angeles doors are 5-ply construction including face veneers.

STANDARD SPECIFICATIONS FOR WOCO DOORS

All doors throughout shall be (Woco Fir) manufactured by WHEELER OSGOOD SALES CORPORATION, Tacoma, Wash.

Stiles and rails shall be solid. Door panels shall be Laminex 3-ply, cemented together with Laminex water-resistant cement.

The doors, when delivered to the job, shall bear the WOCO guarantee label and trade-mark.

STANDARD SPECIFICATIONS FOR LAMINEX DOORS

All doors throughout shall be (Laminex Fir, Philippine Mahogany or other hardwoods) manufactured by WHEELER OSGOOD SALES CORPORATION, Tacoma, Wash.

Stiles and Rails shall be built-up (Laminex processed).

In Laminex Douglas Fir, face veneers shall be either flat or vertical grain cemented to cores with Laminex water-resistant cement.

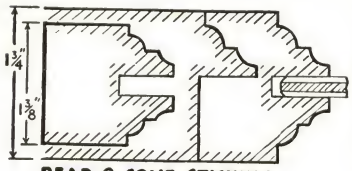
In Philippine Mahogany, face veneers shall be ribbon grain cemented to cores with Laminex water-resistant cement.

Door panels shall be 3-ply, made up with Laminex water-resistant cement.

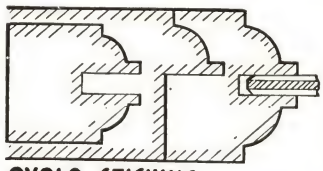
Doors, when delivered, shall bear the Laminex guarantee label and trade-mark.

SUGGESTIONS FOR ORDERING

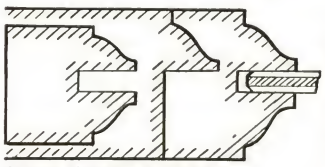
Order by design numbers as shown in this catalog. Specify grade desired. If other than Flat panels are desired, it should be specified.



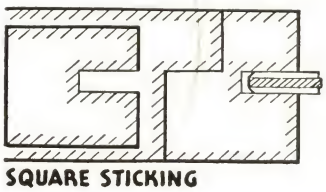
BEAD & COVE STICKING



OVOLO STICKING



SUNK OGEE STICKING



SQUARE STICKING

LAMINEX *Streamliner* DOOR

The Laminex Streamliner is the new, improved, hollow-core type door. It meets, perfectly, the modern need for lighter weight, stronger doors which are attractive in appearance, yet low in cost.

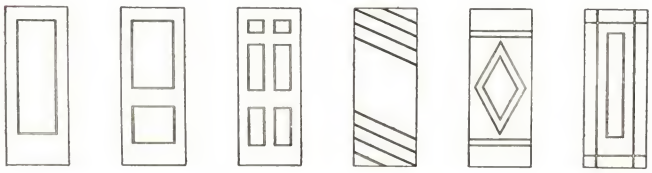
The development of the **Streamliner** hollow-core type of door is the result of Wheeler Osgood's 50 years' experience in designing and manufacturing doors. Dead weight has been discarded without sacrificing strength or durability. Economy is provided without reducing excellence of workmanship or materials.

REDUCED WEIGHT WITHOUT LOSS OF STRENGTH

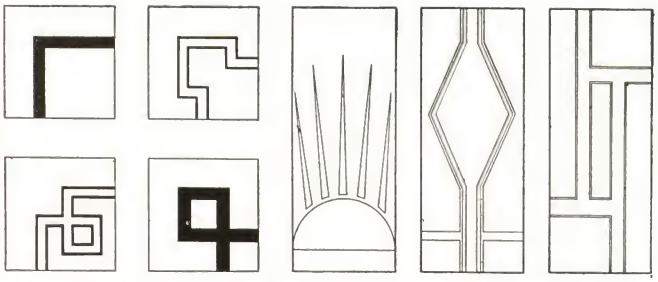
The **Streamliner** is lighter in weight than ordinary flush or slab doors. It affords greater ease of hanging, handling and operation. The reduction in weight, without loss of strength, is made possible by the unique core construction.

The Streamliner is adaptable to any finish treatment. The plain panel surfaces offer endless possibilities. (For enamel, stain, paint or wax finish see page 15.)

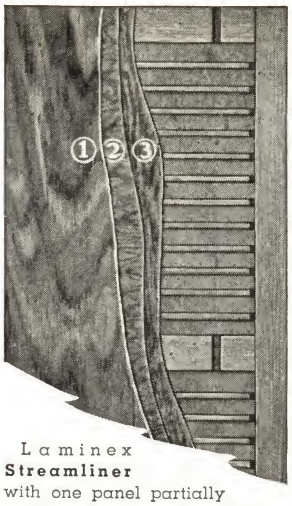
The Streamliner also lends itself perfectly to innumerable inlaid or routed decoration treatments. Any conceivable pattern or style is obtainable. The recommended depth of routing is $\frac{1}{32}$ in., width ¼ in.



Typical decorations that may easily be applied to the plain surface of the **Streamliner** Door by routing or painting on the job. Special orders requiring routing or inlay decorations can be handled at the factory.



A few suggestions for treatment of paneling of inlay work.



Laminex **Streamliner** with one panel partially cut away showing construction of stiles, rails and horizontal bracing bars.

The numerous advantages afforded by the **Streamliner** have led to its use in practically every type of home and commercial building.

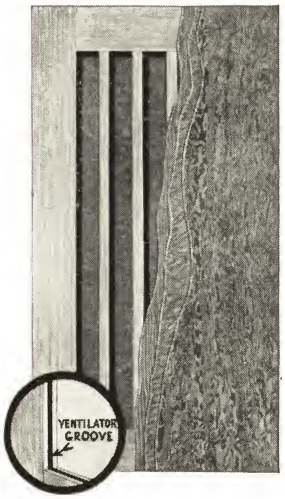
The **Streamliner** can be furnished in **Fire-Retarding** construction, in accordance with architect's specifications or requirements.

A MODERN DEVELOPMENT COMBINING

. . . . *Strength*
. . . . . *Beauty*
. *Light Weight*
. . *and Economy*

A NEW CUPBOARD DOOR —a small Streamliner

The hollow-core construction principle is also used in the manufacture of **Streamliner** cupboard doors. Light weight and increased strength afford easier hanging and operation. Ventilated —the **Streamliner** cupboard door is guarded against the warping effects of temperature changes, dryness and moisture.



The ventilation groove around the inside edge of stiles and rails allows complete circulation of air. Air ducts are located at top and bottom of door.

LAMINEX *Guarantee* This Laminex door, built by our exclusive process, is guaranteed. In case of failure not due to neglect or misuse, we will replace it without charge.

Streamliner

WHEELER OSGOOD SALES CORPORATION
TACOMA, WASHINGTON, U.S.A.

BOTH ARE BACKED BY THE FAMOUS LAMINEX STREAMLINER GUARANTEE

The **Streamliner** is a guaranteed Laminex door. As proved by thousands of installations, when properly installed the **Streamliner** gives absolutely trouble-free service. There is a guarantee label on every genuine **Streamliner** door.

CONSTRUCTION FEATURES OF LAMINEX *Streamliner* DOORS

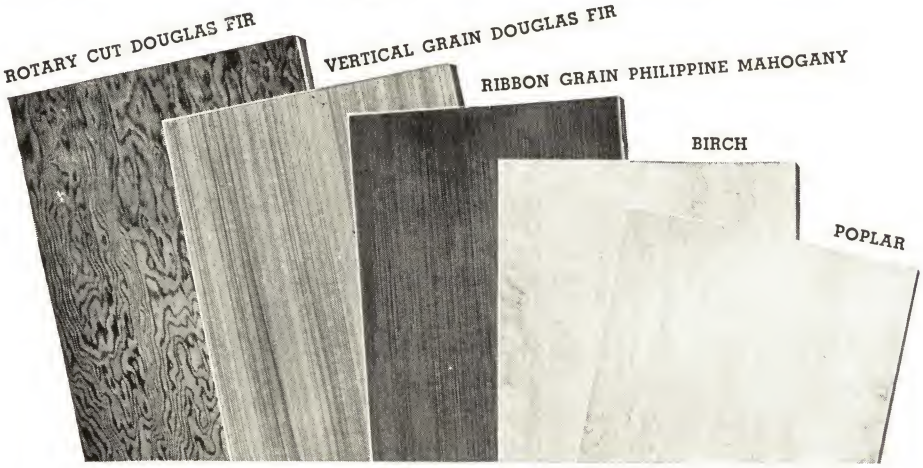
MANUFACTURED IN FIVE WOOD SURFACES

The **Rotary Cut Douglas Fir,** with its popular grain effects, takes stain or wax with unusually attractive results, also suitable for paint or enamel finishes—furnished resin sealed, at a slight additional cost, the door may be used appropriately anywhere. The attractive appearance is enhanced and the possibility of grain raising or hair checking is practically eliminated.

The fine texture of the **vertical grain, selected old growth Douglas Fir** is particularly suited for smooth, painted or enameled surfaces.

Philippine Mahogany, with its beautiful ribbon grain, can be finished in all shades —light or dark mahogany, light walnut, or the beautiful natural finish. Proper staining and finishing bring out the desired effects at moderate cost.

Birch provides strikingly beautiful effects in "natural" finish, or when either light or dark stains are used.



Poplar, stained light or dark, as desired, provides unusually attractive effects, also suitable for paint, enamel or natural finishes.

As in all 10-point doors, the surfaces are smoothly sanded with care and skill—providing a door that is equal in quality to a fine custom-built product.

BOX GIRDER CONSTRUCTION ASSURES GREATER DOOR STRENGTH THAN WOULD EVER BE REQUIRED

Before the **Streamliner** was put on the market, strength tests were made to doubly insure the design-work of Wheeler Osgood engineers. Tests were made under the supervision of Professor Bror L. Grondal at the School of Forestry, University of Washington, Seattle.

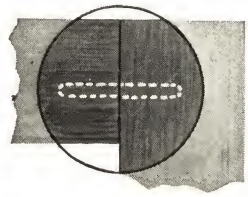
A stock door was placed in a testing frame built to exactly duplicate a typical door frame. Measured pressure assured an accurate test of the impact strength of the **Streamliner** door.

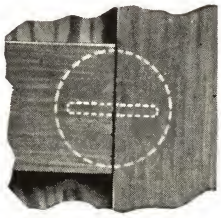
The result of the test showed conclusively that the **Streamliner** door has far more strength than would ever be required in the hardest service imaginable. The 3-ply panel faces of the **Streamliner** door act with the hollow (girder-like) core frame to make each door in effect a section of a box girder. These faces distribute the load of both tests and service so effectively that it resists extremely high pressure. The **Streamliner** assures long, trouble-proof service.

ENGINEERED DESIGN—CORE CONSTRUCTION STILES, RAILS

The core is constructed of two stiles and three rails, horizontally braced, by twenty-four bars, which are mortised into the stiles. Two Laminex-built panels —three-ply construction—are cemented to this rigid frame, by the hot plate press method, providing the unusual lightness and exceptional strength characteristics of the **Streamliner.**

Although it offers many exclusive advantages, the **Streamliner** costs less than ordinary flush or slab doors.





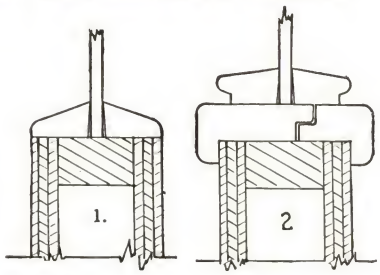
STILES AND RAILS ARE JOINED BY DOWELS

at joints, assuring tight construction. The sturdy bars are placed "edgewise" to give uniformly perfect glue contact area. Each bar is a rigid member mortised into the stile—providing a construction similar to that used in many bridges.

CUT-IN LIGHTS IN STREAMLINER DOORS

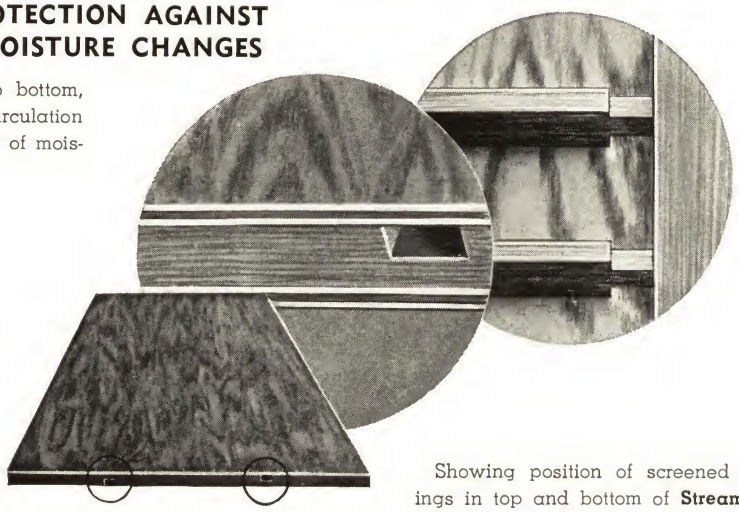
Streamliner doors may be secured with one light opening or with divided lights. Sketches show construction of opening and beads.

Construction as shown in sketch No. 1 or sketch No. 2 may be secured for one-light opening or for divided lights.



VENTILATION FOR PROTECTION AGAINST TEMPERATURE AND MOISTURE CHANGES

In the **Streamliner,** channels from top to bottom, with screened openings, allow a constant circulation of air, guarding against the warping effects of moisture, dryness and temperature changes.



At both ends of each bar, openings provide passageways for ventilation, assuring resistance to warping.

Showing position of screened ventilation openings in top and bottom of **Streamliner** door.

LAMINEX CEMENT

Throughout all joints in the **Streamliner** Door the same famous Laminex cement welds the sections together under high pressure—forming a rigid unit with joints that are stronger than the wood itself—making a door that is one solid unit.

WHEELER OSGOOD OFFERS THE COUNTRY'S MOST COMPLETE LINE OF DOORS. OVER *300 Standard Designs* IN DOUGLAS FIR AND PHILIPPINE MAHOGANY.

BOTH SOLID AND BUILT-UP CONSTRUCTION *Consisting of* Sub-Frame Doors, Panel Doors, Sash Doors, French Doors, Side Lights, Storm Doors, Cupboard Doors

In the complete Wheeler Osgood line of WOCO and LAMINEX Doors, there is a door to meet every residential, garage and commercial building (hotel, office buildings, etc.) requirement. The present Wheeler Osgood line is the result of over 50 years' experience and the production of over 27 million doors.

The Research and Laboratory Division is maintained for the purpose of developing and further improving Wheeler Osgood Products and to assure continued uniformity and unexcelled quality.

CONSTRUCTION DETAILS AND LAYOUTS

The details of construction and layouts, for the designs shown on this and the following pages, are shown on pages 12 and 13 of this catalog.

The Wheeler Osgood engineering department will be glad to furnish any additional data which is desired.

ONLY PRINCIPAL DESIGNS SHOWN

The designs shown here constitute the principal designs in both the WOCO and LAMINEX lines. If your requirements call for designs other than those shown here—send us your specifications and we will forward special data immediately.

KEY TO DESIGNS

The key to design construction is carried on each of the design pages. WOCO doors are indicated by * LAMINEX Doors are indicated by §. When designs are made in **both** WOCO and LAMINEX construction such designs are indicated by †.

DIRECTIONS FOR ORDERING

Shipments are made faster and the possibility of error is eliminated when orders contain the following information:

1. The Wheeler Osgood design number.
2. Grade required.
3. Kind of wood desired. If Douglas Fir, rotary cut or vertical grain should be specified. If Philippine Mahogany, light or dark red should be specified.
4. When ordering Wheeler Osgood solid stile and rail doors specify WOCO Doors.
5. When ordering Wheeler Osgood doors with "built-up" stiles and rails specify LAMINEX Doors.
6. State exact measurements and thicknesses (measurements shown in this catalog are over-all measurements which include sticking).

WHEELER OSGOOD GUARANTEED DOORS

Wheeler Osgood Doors are fully guaranteed. When properly installed, long life and trouble-free service are absolutely assured.

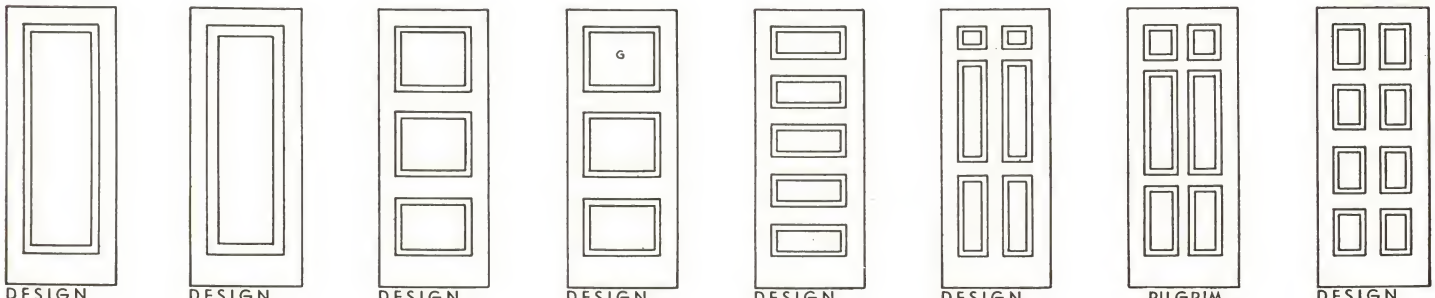
LAMINEX guarantee label on every LAMINEX door. WOCO guarantee label on every WOCO door.

SELECTED FROM THE 300 DESIGNS IN THE COMPLETE LINE OF WHEELER OSGOOD DOORS

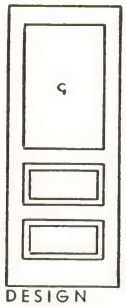
Note on Keys: Numbers on Drawings

The following line drawings are for design purposes only—for actual layouts and construction features refer to pages 12 and 13.

KEY: * WOCO CONSTRUCTION
§ LAMINEX CONSTRUCTION
† WOCO AND LAMINEX CONSTRUCTION



DESIGN F-1 † | DESIGN F-2 † | DESIGN F-3 † | DESIGN F-13 † | DESIGN F-5 * | DESIGN F-66 † | PILGRIM COLONIAL † | DESIGN F-88 †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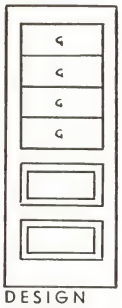
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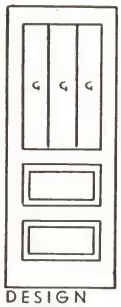
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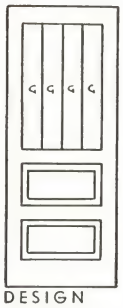
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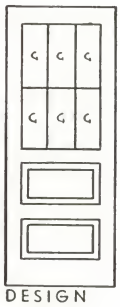
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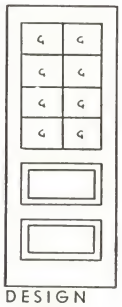
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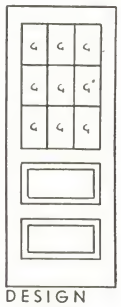
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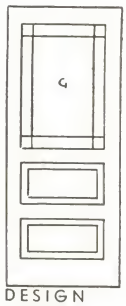
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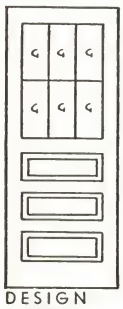
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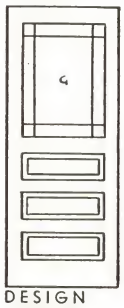
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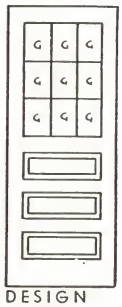
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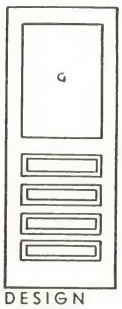
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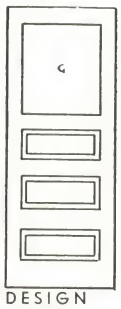
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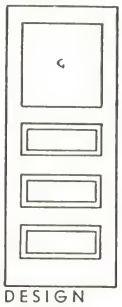
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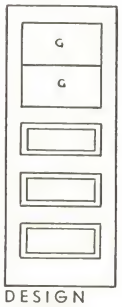
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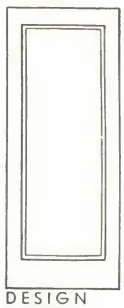
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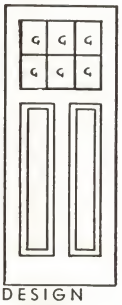
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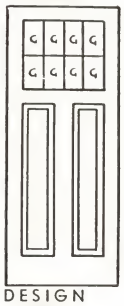
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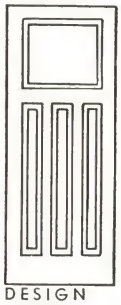
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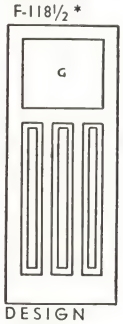
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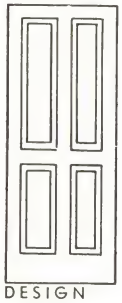
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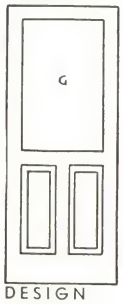
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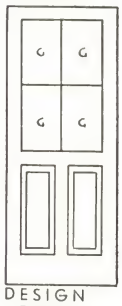
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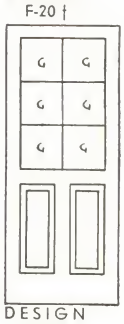
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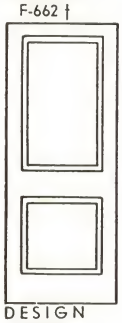
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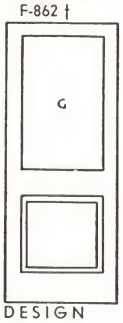
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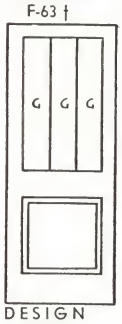
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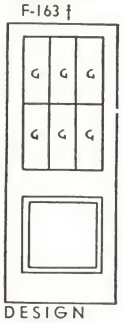
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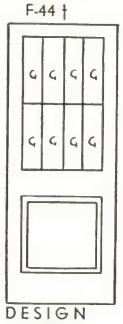
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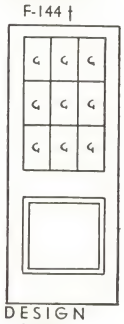
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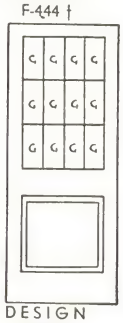
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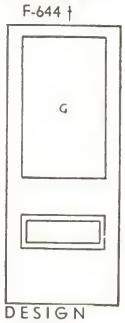
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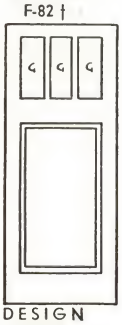
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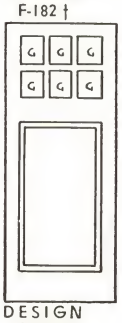
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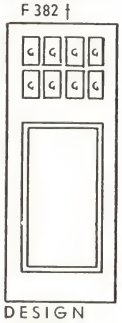
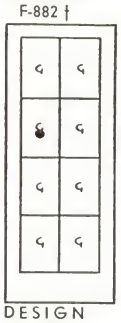

DESIGN F-810 †

DESIGN F-35 †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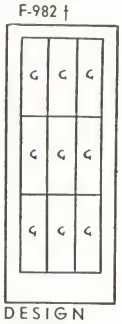
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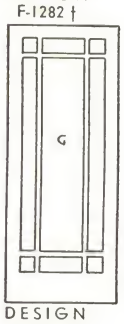
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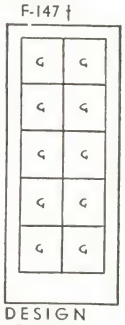
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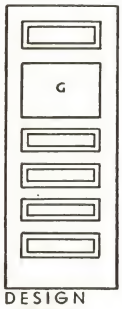
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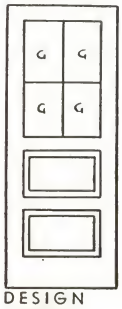
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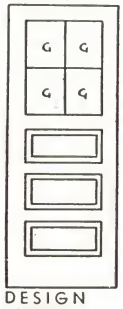
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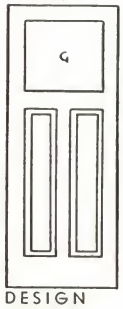
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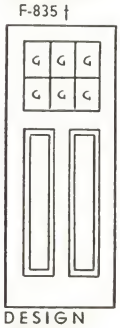
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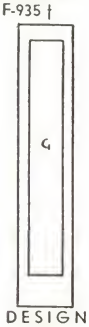
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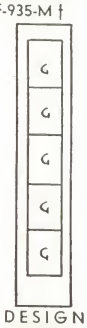
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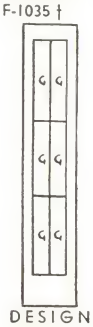
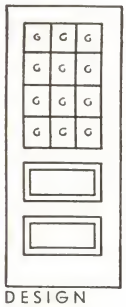

DESIGN F-0635 *

SEE PAGE 12 FOR LAYOUTS

COMPLETE LINE OF WHEELER OSGOOD DOORS

KEY: * WOCO CONSTRUCTION
§ LAMINEX CONSTRUCTION
† LAMINEX AND WOCO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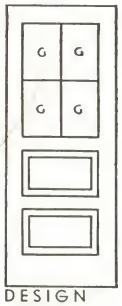
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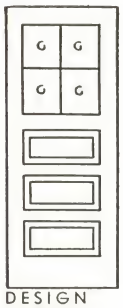
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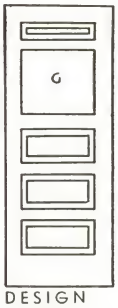
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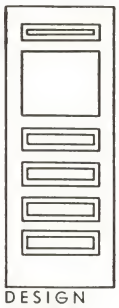
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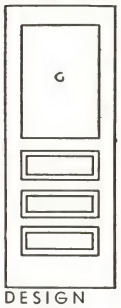
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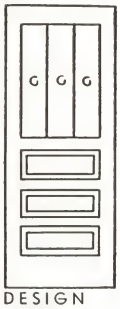
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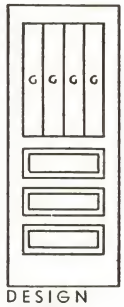
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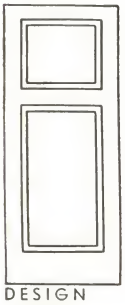
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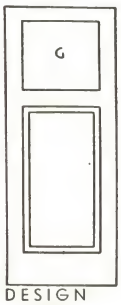
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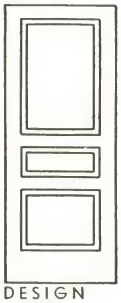
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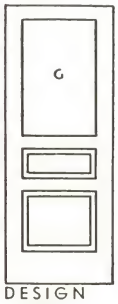
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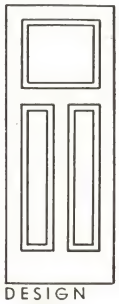
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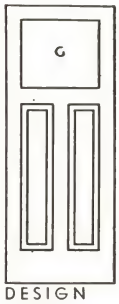
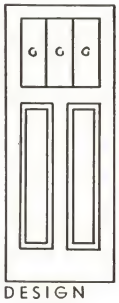

DESIGN F-162 †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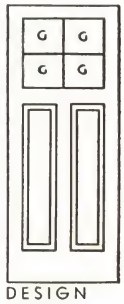
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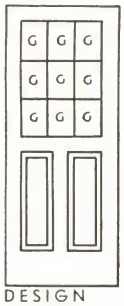
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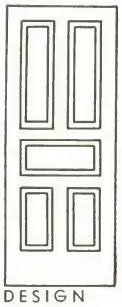
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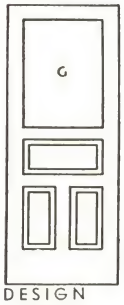
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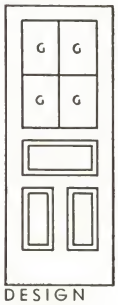
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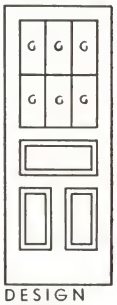
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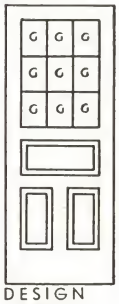
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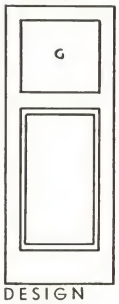
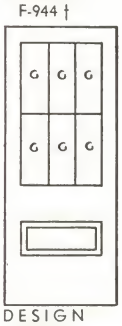

DESIGN F-108 †

DESIGN F-80 †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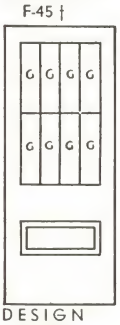
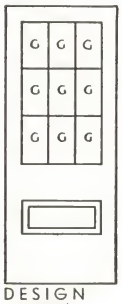

DESIGN F-847 †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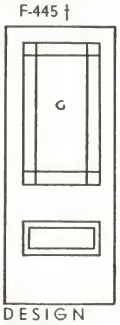
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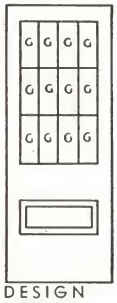
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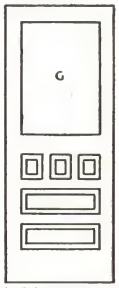
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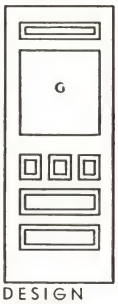
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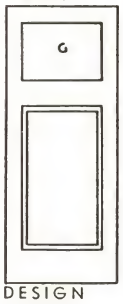
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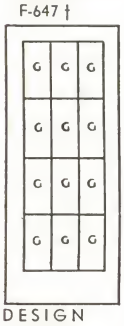
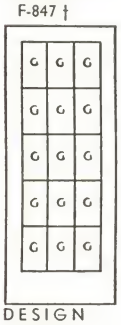

DESIGN F-1235 †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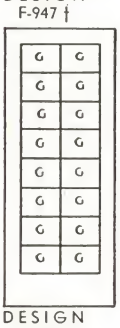
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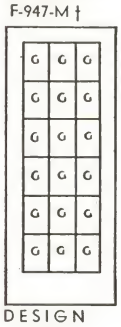
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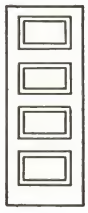
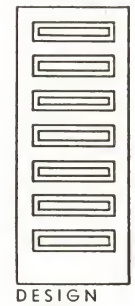
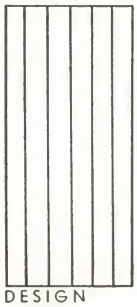

DESIGN F-05 *

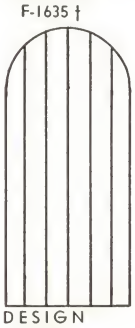
DESIGN F-020 *

DESIGN F-082 *

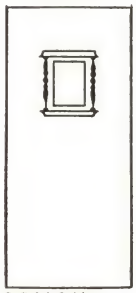

DESIGN FS-7 *

DESIGN 100 §

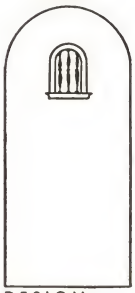

DESIGN 101 §

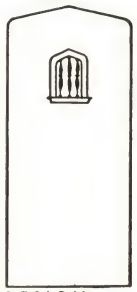

DESIGN 102 §

DESIGN 103 §


DESIGN 104 §

DESIGN 105 §


DESIGN 106 §


DESIGN 107 §

SEE PAGE 12 FOR LAYOUTS

LAYOUTS AND CONSTRUCTION FEATURES of Wheeler Osgood Standard Doors

Layouts, listed in sequence to correspond with illustrations on pp. 9, 10, and 11. Layouts shown are over-all measurements which include sticking.

DESIGN NO.	F-1	F-2	F-3	F-13	F-5	F-66	Pilgrim Colonial	F-88	F-114	F-114-H	F-314	F-414	F-614	F-814	F-914	F-914-M	F-1214	F-415	F-416	F-117	F-117½
STILES	4 9/16	4 9/16	4 9/16	4 9/16	4 9/16	4 9/16	4 9/16	4 9/16	4 9/16	4 9/16	4 9/16	4 9/16	4 9/16	4 9/16	4 9/16	4 9/16	4 9/16	4 9/16	4 9/16	4 9/16	4 9/16
TOP RAIL	4 9/16	4 9/16	4 9/16	4 9/16	4 9/16	4 9/16	4 9/16	4 9/16	4 9/16	4 9/16	4 9/16	4 9/16	4 9/16	4 9/16	4 9/16	4 9/16	4 9/16	4 9/16	4 9/16	5 3/8	5 3/8
IN'T'MD RLS.			2¼	2¼	4½	4½	4½	2⅞	4½	4½	4½	4½	4½	4½	4½	4½	4½	4½	4½	3 3/8	3 3/8
LOCK RAIL						8	9 3/8		5	5	5	5	5	5	5	5	5	4½	5 3/8	5 3/8	5 3/8
MULLION						4½		2⅞													
BARS B'TW'N GLS.										½	½	½	½	½	½	½	½	1 11/16	1 11/16		
BOT. RAIL	9 3/8	9 3/8	9 3/8	9 3/8	9 3/8	9 3/8	7 15/16	9 3/8	9 3/8	9 3/8	9 3/8	9 3/8	9 3/8	9 3/8	9 3/8	9 3/8	9 3/8	9 3/8	9 3/8	9 3/8	9 3/8
PANELS	F	F	F	F	For R*	For R*	F or R*	For R*	For R*	F or R*	F or R*	F or R*	F or R*	F or R*	F or R*	F or R*	F or R*	F or R*	F or R*	F or R*	F or R*
STICKING	Ov	P & G	B & C	B & C	B & C	B & C	B & C	B & C	B & C	B & C	B & C	B & C	B & C	B & C	B & C	B & C	B & C	B & C	B & C	B & C	B & C
GLASS SIZE 2'8" x 6'8"				23⅝ x 21 5/16					23⅝ x 38	23⅝ x 9¼	7½ x 38	11½ x 18¾	7½ x 18¾	11½ x 9 1/16	7½ x 12 5/16		7½ x 9 1/16	11 x 19	11 x 16	23⅝ x 26	23⅝ x 24

DESIGN NO.	F-118	F-318	F-418	F-618	F-918-M	F-918	F-118½	F-119	F-214	F-214-H	F-20	F-28	F-128	F-33	F-133	F-62	F-162	F-362	F-462	F-662	F-862
STILES	4 9/16	4 9/16	4 9/16	4 9/16	4 9/16	4 9/16	4 9/16	4 9/16	4 9/16	4 9/16	4 9/16	4 9/16	4 9/16	4 9/16	4 9/16	4 9/16	4 9/16	4 9/16	4 9/16	4 9/16	4 9/16
TOP RAIL	5 3/8	5 3/8	5 3/8	5 3/8	5 3/8	5 3/8	5 3/8	4 9/16	4 9/16	4 9/16	4 9/16	4 9/16	4 9/16	4 9/16	4 9/16	4 9/16	4 9/16	4 9/16	4 9/16	4 9/16	4 9/16
IN'T'MD RLS.	3 3/8	3 3/8	3 3/8	3 3/8	3 3/8	3 3/8	3 3/8	4½	4½	4½				4½	4½						
LOCK RAIL	5 3/8	5 3/8	5 3/8	5 3/8	5 3/8	5 3/8	5 3/8	4½	4½	4½		4½	4½			4½	4½	4½	4½	4½	4½
MULLION																4½	4½	4½	4½	4½	4½
BARS B'TW'N GLS.		½	½	½	½	½				½								½	½	½	½
BOT. RAIL	9 3/8	9 3/8	9 3/8	9 3/8	9 3/8	9 3/8	9 3/8	9 3/8	9 3/8	9 3/8	9 3/8	9 3/8	9 3/8	9 3/8	9 3/8	9 3/8	9 3/8	9 3/8	9 3/8	9 3/8	9 3/8
PANELS	F or R*	F or R*	F or R*	F or R*	F or R*	F or R*	F or R*	F or R*	F or R*	F or R*	F	F	F	F	F	F	F	F	F	F	F
STICKING	B & C	B & C	B & C	B & C	B & C	B & C	B & C	B & C	B & C	B & C	B & C	B & C	B & C	B & C	B & C	B & C	B & C	B & C	B & C	B & C	B & C
GLASS SIZE 2'8" x 6'8"	23⅝ x 34	7½ x 34	5½ x 34	7½ x 16¾		7½ x 11	23⅝ x 32	23⅝ x 24⅝	23⅝ x 26	23⅝ x 8⅜			23⅝ x 18		23⅝ x 34		23⅝ x 18	7½ x 18	5 3/16 x 18	7½ x 10 23/32	5 9/16 x 8¾

DESIGN NO.	F-63	F-163	F-44	F-144	F-444	F-644	F-944	F-45	F-145	F-445	F-645	F-945	F-108	F-80	F-82	F-182	F-382	F-682	F-882	F-982	F-1282
STILES	4 9/16	4 9/16	4 9/16	4 9/16	4 9/16	4 9/16	4 9/16	4 9/16	4 9/16	4 9/16	4 9/16	4 9/16	4 9/16	4 9/16	4 9/16	4 9/16	4 9/16	4 9/16	4 9/16	4 9/16	4 9/16
TOP RAIL	4 9/16	4 9/16	4 9/16	4 9/16	4 9/16	4 9/16	4 9/16	4 9/16	4 9/16	4 9/16	4 9/16	4 9/16	5 3/8	4 9/16	4 9/16	4 9/16	4 9/16	4 9/16	4 9/16	4 9/16	4 9/16
IN'T'MD RLS.								4½	4½	4½	4½	4½									
LOCK RAIL	4½	4½	8	8	8	8	8						5 3/8		8	8	8	8	8	8	8
MULLION	3¼	3¼	4½	4½	4½	4½	4½	4½	4½	4½	4½	4½		4½							
BARS B'TW'N GLS.					½	½	½			½	½	½					½	½	½	½	½
BOT. RAIL	9 3/8	9 3/8	9 3/8	9 3/8	9 3/8	9 3/8	9 3/8	9 3/8	9 3/8	9 3/8	9 3/8	9 3/8	9 3/8	9 3/8	9 3/8	9 3/8	9 3/8	9 3/8	9 3/8	9 3/8	9 3/8
PANELS	F	F	F	F	F	F	F	F or R*	F or R*	F or R*	F or R*	F or R*	F	F	F	F	F	F	F	F	F
STICKING	B & C	B & C	B & C	B & C	B & C	B & C	B & C	B & C	B & C	B & C	B & C	B & C	B & C	B & C	B & C	B & C	B & C	B & C	B & C	B & C	B & C
GLASS SIZE 2'8" x 6'8"		23⅝ x 18		23⅝ x 40	11½ x 19¾	11½ x 12 15/16	7½ x 12 15/16		23⅝ x 34	11½ x 16¾	11½ x 10 15/16	7½ x 10 15/16	23⅝ x 28			23⅝ x 40	7½ x 40	11½ x 12 15/16	11½ x 9 9/16	7½ x 13	7½ x 9 9/16

DESIGN NO.	F-147	F-647	F-847	F-947	F-947-M	F-1247	F-152	F-154	F-110	F-310	F-610	F-810	F-35	F-835	F-935	F-935-M	F-1035	F-1235	F-1535	F-1635	F-1835
STILES	5 3/8	5 3/8	5 3/8	5 3/8	5 3/8	5 3/8	4 9/16	4 9/16	4 9/16	4 9/16	4 9/16	4 9/16	4 9/16	4 9/16	4 9/16	4 9/16	4 9/16	4 9/16	4 9/16	4 9/16	4 9/16
TOP RAIL	5 3/8	5 3/8	5 3/8	5 3/8	5 3/8	5 3/8	5 3/8	5 3/8	5 3/8	5 3/8	5 3/8	5 3/8	4 9/16	4 9/16	4 9/16	4 9/16	4 9/16	4 9/16	4 9/16	4 9/16	4 9/16
IN'T'MD RLS.							3 3/8	3 3/8													
LOCK RAIL	9 3/8	9 3/8	9 3/8	9 3/8	9 3/8	9 3/8	5 3/8	5 3/8	8	8	8	8									
MULLION							3 3/8	3 3/8													
BARS B'TW'N GLS.		½	½	½	½	½				½	½	½		½	½	½	½	½	½	½	½
BOT. RAIL	11 3/8	11 3/8	11 3/8	11 3/8	11 3/8	11 3/8	9 3/8	9 3/8	9 3/8	9 3/8	9 3/8	9 3/8	9 3/8	9 3/8	9 3/8	9 3/8	9 3/8	9 3/8	9 3/8	9 3/8	9 3/8
PANELS	F or R*	F or R*	F or R*	F or R*	F or R*	F or R*	F or R*	F or R*	F	F	F	F									
STICKING	B & C	B & C	B & C	B & C	B & C	B & C	B & C	B & C	B & C	B & C	B & C	B & C	B & C	B & C	B & C	B & C	B & C	B & C	B & C	B & C	B & C
GLASS SIZE 2'8" x 6'8"	22 x 46	10 11/16 x 14 15/16	10 11/16 x 11 1/16	6¾ x 14 15/16		6¾ x 11 1/16	23⅝ x 34	23⅝ x 26	23⅝ x 22	7½ x 22	7½ x 10¾	5½ x 10¾	23⅝ x 66¾	23⅝ x 7⅞	7½ x 21¾		11½ x 12⅞	7½ x 16¼	7½ x 12⅞	11½ x 7⅞	7½ x 10⅝

DESIGN NO.	F-05	F-020	F-082	F-S-7	F-S-07	F-S-415	F-S-416	F-S-162	F-S-662	F-035	F-0535	F-0635	100♦	101♦	102♦	103♦	104♦	105♦	106♦	107♦
STILES	2¾	2¾	2¾	4 9/16	4 9/16	4 9/16	4 9/16	4 9/16	4 9/16	2⅜	2⅜	2⅜								
TOP RAIL	2¾	2¾	2¾	4 9/16	4 9/16	4 9/16	4 9/16	4 9/16	4 9/16	4 9/16	4 9/16	4 9/16								
IN'T'MD RLS.	2¾		3½	4½	4½	4½	4½													
LOCK RAIL						4½	5 3/8	4½	4½											
MULLION						2 7/16	2 7/16	4½	4½											
BARS B'TW'N GLS.						1 11/16	1 11/16		½		½	½								
BOT. RAIL	4½	4½	4½	9 3/8	9 3/8	9 3/8	9 3/8	9 3/8	9 3/8	9 3/8	9 3/8	9 3/8								
PANELS	F or R*	F	F	F or R*	F or R*	F or R*	F or R*	F	F											
STICKING				B & C	B & C	B & C	B & C	B & C	B & C											
GLASS SIZE 2'8" x 6'8"					2'8½"x6'9" 24x16¾	11¼ x 19½	11 3/16 x 16 7/16	24⅛ x 19	7⅝ x 11 7/32											

SLAB DOORS

♦Available in either Los Angeles or Eastwood construction.

Glass size varies with size of door. Glass size shown applies to 2'8" x 6'8" doors. For each 2" reduction in size of door—make corresponding reduction in glass size provided there is no change in layout. For each 2" increase in size of door make corresponding addition to glass size. Layouts other than those shown are available for many of the designs listed above.

*F or R indicates Flat or Raised Panels.

WOCO AND LAMINEX ENGINEERED DOORS

Scientifically designed, Laminex and Woco Doors, are built to give long trouble-free service. They offer 10-points of superiority in design and construction. Only the choicest and most carefully selected lumber is used. Lumber stocks are scientifically dried to uniform moisture content, providing maximum protection against warping. "Laminex veneered stile and rail construction results in the elimination of loose veneers, sunken cores, warping, twisting and rough sticking." Dowel construction offers maximum protection against opening of joints.

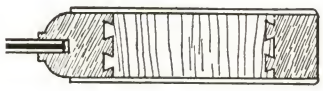
Laminex water-resistant cement is protection against warping. The finest sanding equipment provides a smooth, polished finish. Double inspection assures maintenance of highest quality standards.

Laminex Doors were tested by Professor Bror L. Grondal, School of Forestry, University of Washington, Seattle, and show extreme resistance to the usual tendencies to shrink, swell, warp and come apart. The Laminex water test has been conducted throughout the country, where Laminex Fir Doors were immersed in water for days and failed to show injury.

Today, over twenty-seven million Laminex and Woco "10-Point" Doors in service offer practical proof of their unusual ability to stand up under years of use. Laminex Doors enjoy the confidence of architects and builders.

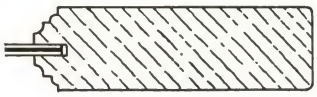
TYPICAL CROSS-SECTION THROUGH THE STILE OR RAIL OF A LAMINEX DOOR

Note the solidity of "built-up" rail construction. Resistance to shrinkage, swelling, or coming apart is assured.



TYPICAL CROSS-SECTION THROUGH THE STILE AND RAIL OF A WOCO DOOR

The stiles and rails of WOCO Doors are solid. Extra size dowels, careful selection and scientifically controlled kiln drying of wood assure freedom from door troubles.



STANDARD SPECIFICATIONS FOR LAMINEX DOORS

All doors throughout shall be (Laminex Fir, Philippine Mahogany and other hardwoods) manufactured by WHEELER OSGOOD SALES CORPORATION, Tacoma, Wash.

Stiles and rails shall be built up (Laminex processed.)

In Laminex Douglas Fir, face veneers shall be either flat or vertical grain cemented to cores with Laminex water-resistant cement.

In Philippine Mahogany, face veneers shall be ribbon grain cemented to cores with Laminex water-resistant cement.

Door panels shall be Laminex 3-ply, made up with Laminex water-resistant cement.

Doors, when delivered, shall bear the Laminex guarantee label and trade-mark.

STANDARD SPECIFICATIONS FOR WOCO (SOLID) DOORS

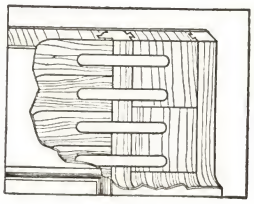
All doors throughout shall be (Woco Fir) manufactured by WHEELER OSGOOD SALES CORPORATION, Tacoma, Wash.

Stiles and rails shall be solid. Door panels shall be Laminex 3-ply, cemented together with Laminex water-resistant cement.

The doors, when delivered to the job, shall bear the WOCO guarantee label and trade-mark.

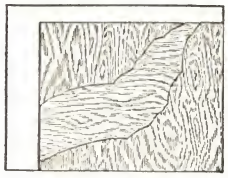
DOWEL CONSTRUCTION IN ALL WHEELER OSGOOD DOORS

Four wooden dowels are used in the construction of bottom rail joints and two in top rail and lock rail joints. All dowels are ⅝ in. in diameter and 5 in. long. They give over 50% greater strength and 30% more glue contact area than doors with only half-inch dowels. Special equipment sprays glue to entire surface of dowel hole and also carries glue to mouldings at top of rail and bottom of rail.



PANEL CONSTRUCTION OF LAMINEX AND WOCO DOORS

Clear, 3-ply Flat Grain Fir panels with grain crossed. Panels are welded together with Laminex water-resistant cement, forming a bond stronger than the wood itself.



LAMINEX CONSTRUCTION

"LAMINEX" doors are built up by our special process of construction —one embodying the principle of lamination. The grain of the adjoining sections is so "crossed" that it equalizes all expansion and contraction, and holds the whole in check, for wood cannot shrink in length and the "LAMINEX" cement is stronger than the wood. "LAMINEX" doors are furnished in both vertical and flat grain stiles and rails.

CONSTRUCTION OF EASTWOOD AND LOS ANGELES DOORS

Core consists of two stiles, wide top, bottom and cross rails joined together, making a flush solid, built-up core. Any type of light may be cut in. All Eastwood doors are 3-ply construction; all Los Angeles doors are 5-ply construction including face veneers.

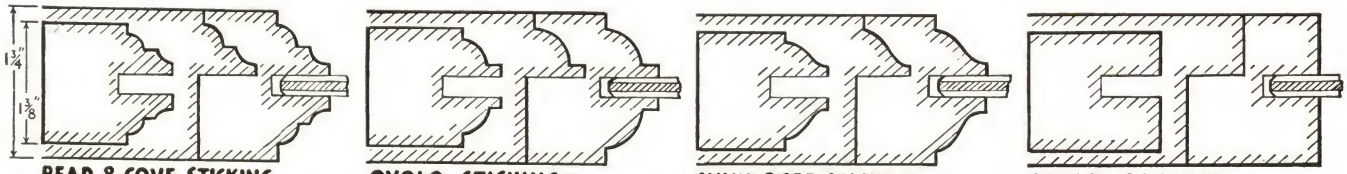
WOCO AND LAMINEX DOORS OF DOUGLAS FIR

Laminex Doors are constructed of clear, selected old growth Douglas Fir, particularly suited for door construction. It is remarkably free from pitch, easily worked. Durability rating of Douglas Fir is 60% higher than California Sugar Pine, 88% higher than Western Yellow Pine, according to the U. S. Department of Agriculture. Laminex Doors of Douglas Fir come in both the flat and vertical grain. The flat grain takes stain or wax perfectly. The vertical grain is particularly suited for fine enamel work.

LAMINEX DOORS OF PHILIPPINE MAHOGANY

Philippine Mahogany Laminex offers a line of doors with unusual beauty and distinction of designs, at a surprisingly moderate cost. Philippine Mahogany can be finished in all shades from dark red mahogany to light walnut, or in the beautiful natural finishes. By proper staining and finishing, the various tones of these colors, also dull antique, are obtained.

The close-grained, ribbon effect of Philippine Mahogany is unexcelled for doors and trim. Modern effects and diamond matchings are frequently used. Wheeler Osgood method of preparation brings out the beauty of this wood. Careful and thorough sanding, resanding, hand smoothing, result in a door that is equal to the finest custom-built product.



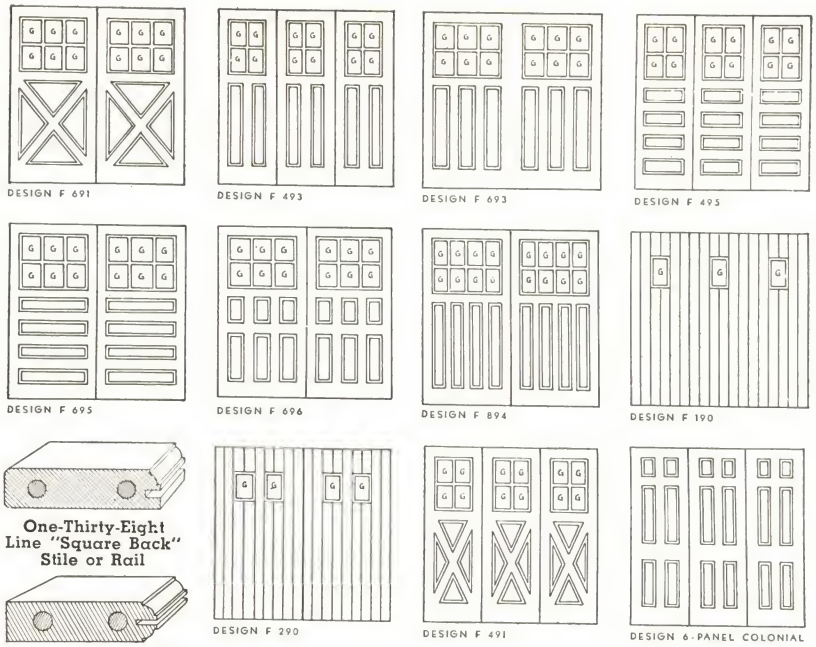
BEAD & COVE STICKING — OVOLO STICKING — SUNK OGEE STICKING — SQUARE STICKING

WHEELER OSGOOD *Garage Doors* IN PAIRS AND SETS

STANDARD LINE GARAGE DOORS Furnished in designs to meet the requirements of period or modern treatment are included in the complete line of WOCO garage doors. Constructed of durable Douglas Fir, **with 1¾ in.** stiles and rails, they conform to the high standards of quality and workmanship maintained by Wheeler Osgood. Available in designs shown at right and many others.

ONE-THIRTY-EIGHT LINE GARAGE DOORS Fully tested in the laboratory and in actual use, the new "One-Thirty-Eight" line of WOCO garage doors provides the many advantages of reduced weight, at no loss of strength. "Square Back" construction permits the use of 1⅜ in. stiles and rails, instead of the 1¾ in. stiles and rails used in the old type, conventional garage doors. Excess weight is reduced by an average of 20% per door **without sacrificing strength.** A sag-proof, economical door is provided, which is easier to operate. Maintenance is eliminated. Available in designs shown at right, except Nos. 190 and 290.

"Square Back" construction, the result of years of experimentation. It involves an improved form of sticking, in which a modified quarter-round (ovolo) is used. The panels are back of the center position. Straight sticking is used on the inner face, making it possible to give the door a deeper sticking on the outer face side or the appearance of a 1¾ in. door. A greatly increased bearing surface is secured, materially strengthening the joints. Added protection against the weather is provided. And in addition, the doors exhibit an exceptionally attractive appearance.



One-Thirty-Eight Line "Square Back" Stile or Rail

Standard Line 1¾ In. Stile or Rail

1¾ in. Standard Construction—1⅜ in. Square Back Construction

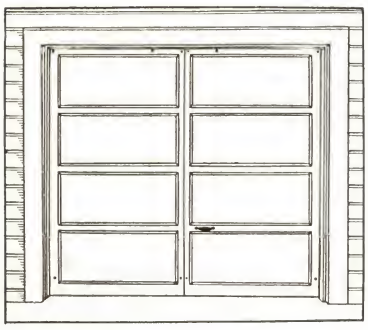
Design No.	F691	493	693	495	695	696	894	190	290	491	6-panel Colonial
Stiles	5⅜	4 9/16	5⅜	4 9/16	5⅜	5⅜	5⅜	Ceiling Construction	Ceiling Construction	4 9/16	4 3/16
Top rail	5⅜	5⅜	5⅜	5⅜	5⅜	5⅜	5⅜			5⅜	4 3/16
Intermediate Rail	.....	.....	.....	4½	4½	4½	.....			.....	4¼
Lock Rail	5⅜	5⅜	5⅜	5⅜	5⅜	5⅜	5⅜			5⅜	8¾
Mullion	.....	4½	4½	.....	.....	4½	3¼			.....	.....
Bars Between Glass	1"	⅝"	1"	⅝"	1"	1"	⅝"			⅝"	.....
Bottom Rail	9⅜	9⅜	9⅜	9⅜	9⅜	9⅜	9⅜			9⅜	7 9/16
Panels	CLG	F or R*	F or R*	F or R*	F or R*	F or R*	F or R*			CLG	F or R*
Glass Opening 7° Door	12x13	11½x13	12x13	11½x13	12x13	12x13	9x13			11½x13	.....

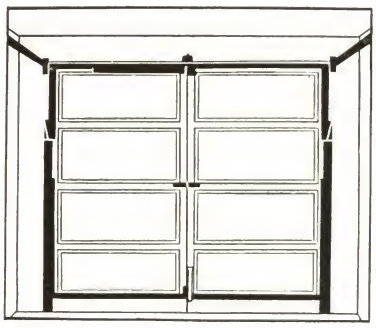
*Flat or Raised. CLG—Ceiling.

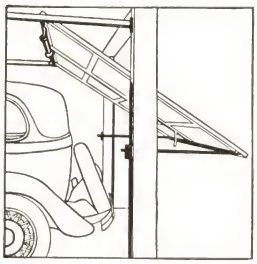
WOCO *Craw-Fir-Dor* THE IMPROVED *Overhead Type* GARAGE DOOR

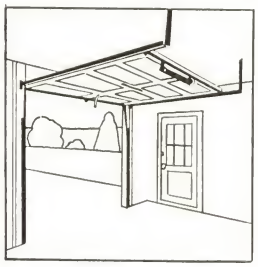
SELF ENERGIZING-ONE PIECE-UPWARD ACTING

The WOCO Craw-Fir-Dor affords one of the most practical answers to the modern garage door problem. It provides a perfect, **economical** closing member for garage entrances—easy to install—simple, easy to operate—durable, trouble-free service—attractive appearance.









SELF-ENERGIZING UPWARD ACTING

The WOCO Craw-Fir-Dor is equipped with a new, improved mechanism which is foolproof. A square wire torsion spring constitutes the power unit. It is silent, inconspicuous and, being mounted on the door itself, **eliminates the necessity for head room**—no waste clearance space is necessary. Precision roller bearings on which the grooved cast iron drum is mounted eliminates cable wear. Rollers are Bakelite impregnated with 20% graphite, reinforced with a steel insert to prevent breakage. Even a child can operate it.

ONE-UNIT CONSTRUCTION

The construction of this overhead garage door, eliminates the disadvantages of many of the ordinary doors of this type. The doors are assembled as one movable unit—there are no sections to impair the proper functioning of the entire door—no elaborate machinery to demand frequent servicing—no obstructions in the opening. WOCO Craw-Fir-Dors are weather-stripped to prevent rattling, warping and sagging.

WOCO 1⅜ IN. CONSTRUCTION

The stiles and rails of the WOCO Craw-Fir-Dor are 1⅜ in. in thickness.

1⅜ in. standard WOCO stile or rail

Durability, troubleproof service and absolute satisfaction are assured by **WOCO** construction.

STANDARD SPECIFICATIONS

Garage Doors shall be WOCO Craw-Fir-Dors manufactured by WHEELER OSGOOD SALES CORPORATION, Tacoma, Wash.

Stiles and rails shall be solid. Door panels shall be Laminex 3-ply, cemented together with Laminex water-resistant cement—surfaces and edges resin sealed.

SIZE: The WOCO Craw-Fir-Dor is available in one standard garage door opening dimension only—8 ft. wide x 7 ft. high. It is furnished as one unit—complete with WOCO doors and all necessary hardware for complete installation.

Where existing openings are larger than 8 x 7 ft.—slight additional framing will adjust opening to proper size.

Easy, Quick Installation

Installation of WOCO Craw-Fir-Dors may be easily and quickly accomplished. No cutting or trimming for installation is necessary since doors are prefitted and predrilled. Complete, simple instructions are furnished with the hardware—no fine adjustments to make—anyone can install them.

Typical Finish Treatment

The color swatches below show only a few of the many attractive finish treatments which may be applied to Wheeler Osgood Doors. Because of the glass-smooth results of the factory's sanding process, the stains, enamels, paints, etc., may be applied successfully by any competent workman.

DOUGLAS FIR

The Rotary Cut Douglas Fir, with its popular grain effects, provides unusually attractive appearance when waxed or stained. The fine texture of the vertical-grain, selected old growth Douglas Fir is well suited for smooth, even painted or enameled surfaces. Any desired color scheme or tone effect can be obtained.

PHILIPPINE MAHOGANY

Philippine Mahogany may be finished in all shades from light or blonde mahogany to the rich, deep reds. Light walnut or the beautiful "natural" are among the many other finishes which may be obtained. Proper staining and finishing permit close matching and will produce practically any desired tone effect.

Belle Port Door of Douglas Fir, showing overall effect—panel, **rotary cut Douglas Fir,** stiles and rails, **vertical grain Douglas Fir.**

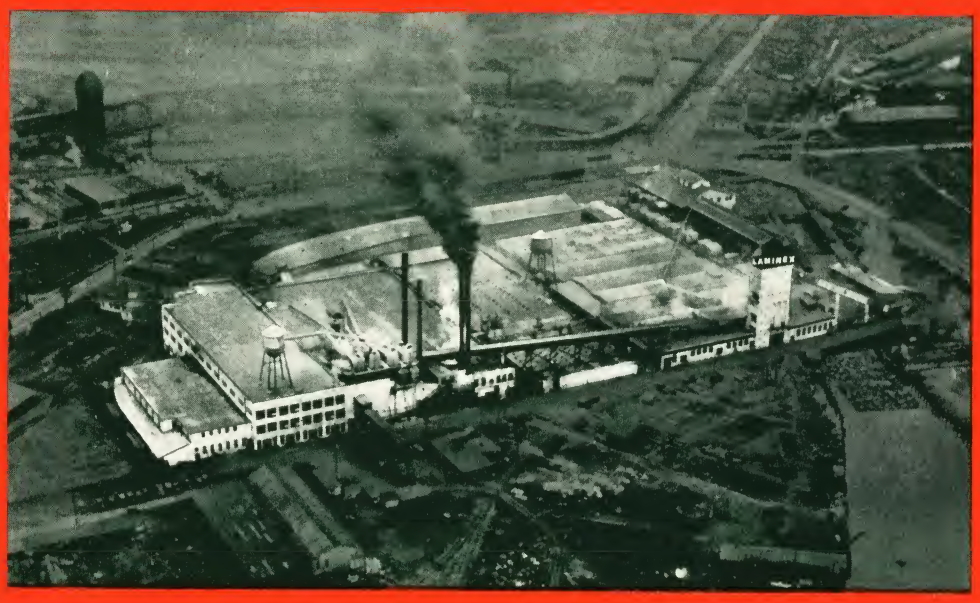
Grain structure of **Rotary Cut Douglas Fir** (one-half actual size). A few typical finish treatments are shown in the first column below. →

Grain structure of **Vertical Grain Douglas Fir** (one-half actual size). A few typical finish treatments are shown in the second column below. →

Grain structure of **light red, ribbon grain Philippine Mahogany** (one-half actual size). A few typical finish treatments are shown in the third column below. ←

Grain structure of **dark red ribbon grain Philippine Mahogany** (one-half actual size). A few typical finish treatments are shown in the fourth column below. ←

Belle Port Door of **Philippine Mahogany** showing the overall beauty provided by the ribbon grain in panel, stile and rail.



WHEELER OSGOOD SALES CORPORATION

Factory: Tacoma, Washington

General Sales Offices: 122 South Michigan Avenue, Chicago, Illinois

Branch Offices: New York San Francisco Los Angeles

Dallas Wichita Tacoma

Stocks Carried in Principal Cities